Interim Mitigation Requirements of the Water Quality Control Policy on the Use of Coastal and Estuarine Waters for Power Plant Cooling

September 4, 2018 – Item 5

Joint presentation by:

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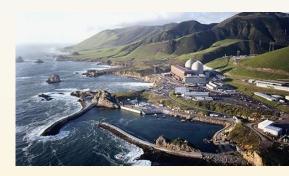






Statewide Water Quality Control Policy on the Use of Coastal and Estuarine Waters for Power Plant Cooling (Once-Through Cooling Policy)

- Interim mitigation requirements for power plants
- Memorandum of Understanding between the State Water Board, Ocean Protection Council, and Coastal Conservancy
 - Ocean Protection Council: \$5,400,000 annually
 - Coastal Conservancy: All funds above \$5,400,000, and funds directly from Mandalay and Ormond Beach Generating Stations



Diablo Canyon Nuclear Power Plant



Mandalay Generating Station

Once-Through Cooling Policy Interim Mitigation Funds Status

OTC Interim Mitigation Funds	2015 – 2016 Interim Mitigation Payment	2016 – 2017 Interim Mitigation Payment
OPC Portion (\$)	\$5,400,000.00	\$5,400,000.00
Conservancy Portion (\$)	\$1,578,301.66	\$1,820,351.57
Total per Period (\$)	\$6,978,301.66	\$7,220,351.57



Scattergood Generating Station



Encina Power Station



Our vision is of a beautiful, restored, and accessible coast for current and future Californians. We act with others to protect and restore, and increase public access to, California's coast, ocean, coastal watersheds and the San Francisco Bay Area.

Ormond Beach Wetland Project











Ormond Beach Wetland Project









Ormond Beach Wetland Project



Southern California Wetland Recovery Project

The mission is to expand, restore, and protect wetlands in Southern California's coastal watersheds.

18 State and federal agencies, 12 scientific and research organizations working with local governments and nongovernmental organizations on acquisition, restoration and education projects.





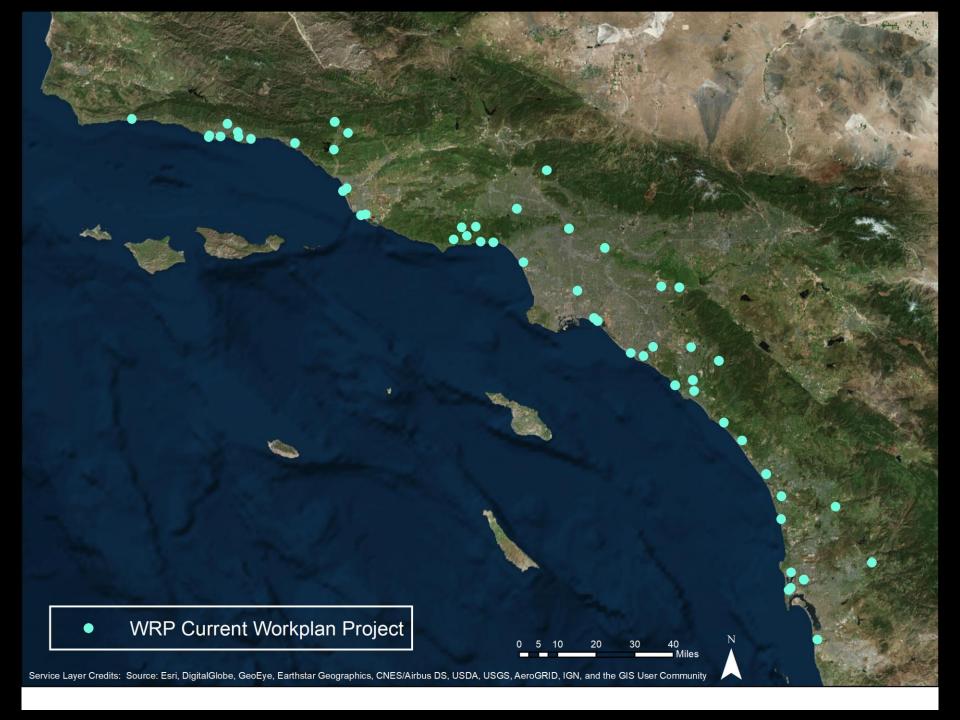


Regional Strategy 2018

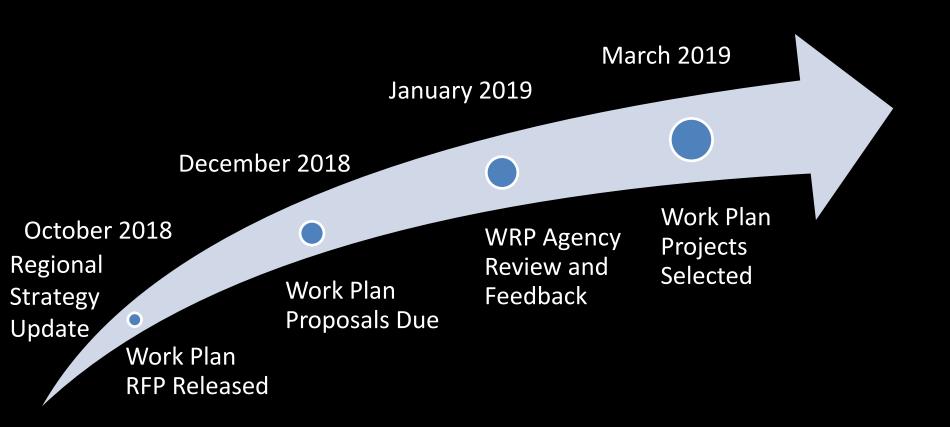
Restore 7,700 acres of sealevel rise resilient wetlands

- ♦ Facilitate marsh migration
- Protect wetland-upland transition zone
- Restore system dynamics and connectivity
- Increase sediment accretion
- Restore and protect watershed processes





Work Plan Schedule











Ocean Protection Council Once-Through Cooling Interim Mitigation Program

Tova Handelman, Marine Protected Area Program Manager State Water Resources Control Board Meeting September 4, 2018

OTC Interim Mitigation Program Project Components

- Enforcement of MPA rules and regulations statewide
- Outreach and education to improve compliance of MPA rules and regulations statewide
- Research to understand how MPAs may be mitigating for OTC impacts
- Restoration that increases marine life in the geographic region of the facility



Enforcement

- \$3,000,000 over 3 years to the California Department of Fish and Wildlife Law Enforcement Division to increase patrols in the MPA network statewide
- Project goals:
 - 4 training seminars for personnel to review new and existing MPA regulations and how to report the contacts and citations in statewide database
 - Critical boat maintenance, ensure equipment is in good working order
 - Wireless connectivity for 6 offshore vessels, crucial for reporting and enforcement efficiency







Outreach and Education

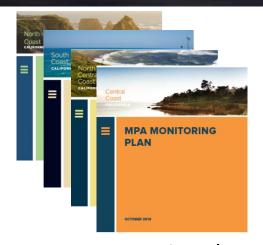
 \$1,206,515 to the Department of Parks and Recreation to bolster MPA messaging over 3 years in 7 park districts across the state

Project goals:

- Expand K-12 participation in the Parks
 Online Resources for Teachers and
 Students Program (PORTS) by 40%
- Translation of public educational materials into Spanish and Asian languages
- Hire a State Park Interpreter II position to facilitate MPA content and programming, coordinate with CDFW and MPA partners



Research and Monitoring











Regional Monitoring Plans

Results & recommendations from Baseline

Additional expert input and analyses







MPA Monitoring
Program Action Plan
(Fall 2018)

Peer review & public comment

Phase 2: Long-term Monitoring

- Funds the completion of the scientific peer review of the MPA Monitoring Action Plan
- Uses the findings from the Action Plan to create a competitive call to implement Phase 2 → OPEN CALL will be for \$9.5 million (Oct. 2018)
- Uses the scientific expertise of grantee to conduct review of proposals
- Recommendations for selected projects will be presented to the Ocean Protection Council for approval in February 2019





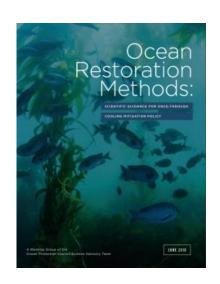


Restoration

 OPC Science Advisory Team released a report in June 2018

Key findings:

- Defines impacted areas as entirety of State waters from San Diego to Big Sur, including the Channel Islands
- Guidance on the efficacy of open-coast mitigation methods that may lead to increases in marine life associated with the state's MPA Network







OTC Interim Mitigation Program Competitive Awards Timeline

Public comment on award guidelines Aug 13 – Sep 14 Ocean Protection
Council consideration
of guidelines
Oct 25

Proposal solicitation (pending OPC approval) Nov 1





Summary of OTC Program

- Ensuring MPAs have the greatest chance to accrue their maximum range of ecological benefits
- Funding restoration projects that are scientifically proven to increase marine wildlife

Identifying opportunities to improve enforcement and compliance



Thank you



State Water Resources Control Board

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Ocean Protection Council

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